

## CLAIMS

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1- A process for producing heptane by the reaction of an hydrogen gas with a carbon monoxide in the presence of a catalyst being made up of about 1/3 of crushed iron, FeO, and about 2/3 of crushed salt, NaCl, characterised by the circulation of an hydrogen gas and a carbon monoxide in the presence of this iron-salt catalyst at a constant temperature of about 160°C-200°C, at a constant pressure of about 2200 p.s.i.-3000 p.s.i. during about 30 minutes.

2- A process as defined in claim 1, in which an iron catalyst and a salt catalyst to be used are FeO and NaCl.

3- A process as defined in claim 1, in which an iron catalyst and a salt catalyst to be used are crushed to a size a diameter less than about 1 mm.

4- A process as defined in claim 1, in which an iron catalyst and a salt catalyst to be used are mixed in proportion to about 1 part of iron for about 2 parts of salt.